From the INTERNATIONAL SEARCHING AUTHORITY

MANI ADELI STATTLER JOHANSEN & ADELI LLP

NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL SEARCH REPORT AND

LOS ANGELES, CA 90067	THE INTERNATIONAL THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION
	(PCT Rule 44.1)
	Date of mailing (day/month/year) 14 OCT 2005
Applicant's or agent's file reference	FOR FURTHER ACTION See paragraphs 1 and 4 below
STAN.P0009PC International application No. PCT/US04/35014	International filing date (day/month/year) 21 October 2004 (21.10.2004)
Applicant THE BOARD OF TRUSTEES OF THE LELAND STANFORD	JUNIOR UNIVERSITY
The applicant is hereby notified that the international sea have been established and are transmitted herewith.	rch report and the written opinion of the International Scarching Authority
Filing of amendments and statement under Article 19 The applicant is entitled, if he so wishes, to amend the cla	anno or are missing a
When? The time limit for filing such amendments is search report.	s normally two months from the date of transmittal of the international
Where? Directly to the International Bureau of WIP 1211 Geneva 20, Switzerland, Facsimile No	O, 34 chemin des Colombettes o.: (41-22) 338.82.70.
For more detailed instructions, see the notes on the	accompanying sheet.
2. The applicant is hereby notified that no international sea	reh report will be established and that the declaration under the International Scarching Authority are transmitted herewith.
With regard to the protest against payment of (an) add	ditional fee(s) under Rule 40.2, the applicant is notified that.
the protest together with the decision thereon has b	the decision thereon to the designated Offices.
no decision has been made yet on the protest; the a	applicant will be notified as soon as a decision is made.
Bureau. If the applicant wishes to avoid of positionic publication claim, must reach the International Bureau as provided in Rules preparations for international publication.	late, the international application will be published by the International n, a notice of withdrawal of the international application, or of the priority is 90bis.1 and 90bis.3, respectively, before the completion of the technical
International Bureau. The International Bureau will send a correlational Bureau will send a correla	on the written opinion of the International Searching Authority to the opy of such comments to all designated Offices unless an international ed. These comments would also be made available to the public but not
Within 19 months from the priority date, but only in respe	bet of some designated Offices, a demand for international preliminary the entry into the national phase until 30 months from the priority date (in 20 months from the priority date, perform the prescribed acts for entry

into the national phase before those designated Offices. In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US Commissioner for Patents

P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230

Telephone No. 571-272-3700

Authorized officer

Ali Imam

(See notes on accompanying sheet)

Form PCT/ISA/220 (January 2004)

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	TOX TOXIZZE	see Form PCT/ISA/220 where applicable, item 5 below.
STAN.P0009PC	ACTION	(Earliest) Priority Date (day/month/year)
International application No. PCT/US04/35014	International filing date (day/month/year 21 October 2004 (21.10.2004)	21 October 2003 (21.10.2003)
	ELAND STANFORD JUNIOR UNIVERS	TTY
This international search report has been according to Article 18. A copy is being. This international search report consists. It is also accompanies. It is also accompanies. With regard to the language, the international a translation of of a translation. With regard to any nucleon. Certain claims were four. Unity of invention is lacked. With regard to the title, the text is approved as sub-	prepared by this International Searching transmitted to the International Bureau. of a total ofk sheets. d by a copy of each prior art document circle international search was carried out on the lapplication in the language in which it was the international application into furnished for the purposes of international tide and/or amino acid sequence disclose and unsearchable (See Box No. II)	Authority and is transmitted to the applicant ted in this report. the basis of: as filed. , which is the language
may, within one month fi 6. With regard to the drawings, a. the figure of the drawings to as suggested by as selected by th as selected by th	hed, according to Rule 38.2(b), by this Aut rom the date of mailing of this international be published with the abstract is Figure No.	o suggest a figure.

Form PCT/ISA/210 (first sheet) (April 2005)

INTERNATIONAL SEARCH REPORT

PCT/US04/35014

Box IV TEXT OF THE ABSTRACT (Continuation of Item 5 of the first sheet)

The abstract is too long (PCT Rule 8.1(b)). The abstract must be less than 150 words, or 200 words when no figure is to be published.

NEW ABSTRACT

Systems and methods are disclosed for assisting a user in guiding a medical instrument to a subsurface target site in a patient by indicating a spatial feature of a patient target site on an intraoperative image (e.g., endoscopic image), determining 3-D coordinates of the patient target site spatial feature in a reference coordinate system using the spatial feature of the target site indicated on the intraoperative image (e.g., ultrasound image, determining a position of the instrument in the reference coordinate system, projecting onto a display device a view field from a predetermined position relative to the instrument in the reference coordinate system, and projecting onto the view field an indicia of the spatial feature of the target site corresponding to the predetermined position.

Form PCT/ISA/210 (continuation of first sheet(3)) (April 2005)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/35014

A. CLASSIFICATION OF SUBJECT MATT	ER			
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US CL: 600/424 According to International Patent Classification (I	PC) or to both nation	iai ciassili	ation and if O	
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U.S.: 600/407-424				
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Documentation searched other than minimum doc	sumentation to the ex	ctent that s	uch documents are included i	n the fields searched
Documentation some enter				
Electronic data base consulted during the interna-	tional search (name (of data bas	e and, where practicable, scar	ch terms used)
Electronic data base consulted during the internal Please See Continuation Sheet	HOMAI SOULON (Hamis			
Please See Continuation Sheet				
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C. DOCUMENTS CONSIDERED TO BE R Category * Citation of document, with in	ELEVAINI	ropriate 0	f the relevant passages	Relevant to claim No.
Category * Citation of document, with it	Idication, where app	2003) cn	tire document.	1-6
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A, P US 2004/0097806 A1 (HUNTER	et al) 20 May 2004 (20.05.200	1), entire document.	1-6
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Further documents are listed in the contin	uation of Box C.		See patent family annex.	
Special categories of cited documents:		r	later document published after the inte and not in conflict with the application	mational filing date or priority date but cited to understand the
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"A" document defining the general state of the art which is no particular relevance), compression to the	w3#"	document of particular relevance; the	elaimed invention cannot be
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a total annual man artificition	or other means		to a person skilled in the art	
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"P" document published prior to the international filing date priority date claimed	but later than the			
Date of the actual completion of the internation	al search	Date of n	nailing of the international se	arch report
			nailing of the international se	
17 September 2005 (17.09.2005)			ed officer	
Name and mailing address of the ISA/US		Audionz	00 0.1.1VT.	
Mail Stop PCT, Attn: ISA/US		Ali Imar	n	
Commissioner for Patents P.O. Box 1450	•	Telephor	ne No. 571-272-3700	
Alexandria, Virginia 223 13-1450		Lerephon		
Facsimile No. (703) 305-3230		l		

Form PCT/ISA/210 (second sheet) (April 2005)

INTERNATIONAL SEARCH REPORT	PCT/US04/35014
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Continuation of B. FIELDS SEARCHED Item 3: EAST	rence coordinate system, indicia, orientation
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Form PCT/ISA/210 (extra sheet) (April 2005)

INTERNATIONAL SEARCHING AUTHORITY

To: MANI ADELI STATTLER JOHANSEN & ADELI LLP 1875 CENTURY PARK EAST, SUITE 1050 LOS ANGELES, CA 90067

PCT

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

LOS ANGELES, CA 90067		INTERNATIO	NAL SEARCHING AUTHORITY
		(PCT Rule 43bis.1)	
·		Date of mailing (day/month/year) 140072005	
Applicant's or agent's file reference		FOR FURTHER A	CTION ce paragraph 2 below
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STAN.P0009PC International application No.	International filing date	(day/month/year)	Priority date (day/month/year)
	21 October 2004 (21.10	0.2004)	21 October 2003 (21.10.2003)
International Patent Classification (IPC) or	both national classifica	ation and IPC	
IPC(7): A61B 8/00 and US Cl.: 600/424			
Applicant			
THE BOARD OF TRUSTEES OF THE L	ELAND STANFORD.	JUNIOR UNIVERSITY	
1. This opinion contains indications rela-	ting to the following ite	ms:	
Box No. I Basis of the	opinion		
Box No. II Priority			
Box No. III Non-establis	shment of opinion with	regard to novelty, inven	tive step and industrial applicability
Box No. IV Lack of unit	y of invention		
Box No. V Reasoned st applicability	atement under Rule $43b$; citations and explanat	bis.1(a)(i) with regard to tions supporting such sta	novelty, inventive step or industrial atement
Box No. VI Certain doct	uments cited		
Box No. VII Certain defe	ects in the international	application	·
Box No. VIII Certain obse	ervations on the interna-	tional application	
2. FURTHER ACTION			
If a demand for international prelim International Preliminary Examinin Authority other than this one to be that written opinions of this Internati	the IPEA and the chose onal Searching Authori	en IPEA has notified the ty will not be so consider	1
IPEA a written reply together, wher of Form PCT/ISA/220 or before the	expiration of 22 month	vritten opinion of the IF endments, before the ex s from the priority date,	PEA, the applicant is invited to submit to the piration of 3 months from the date of mailing whichever expires later.
For further options, see Form PCT/I	SA/220.		
3. For further details, see notes to Form	n PCT/ISA/220.		
Name and mailing address of the ISA/ U	IS Date of con	pletion of this opinion	Authorized officer
Mail Stop PCT, Attn: ISA/US Commissioner for Patents	i	per 2005 (17.09.2005)	Ali Imano Musik
P.O. Box 1450 Alexandria, Virginia 22313-1450			Telephone No. 571-272-3700

Facsimile No. (703) 305-3230
Form PCT/ISA/237 (cover sheet) (April 2005)

INTERNATIONAL SEARCHING AUTHORITY

PCT/US04/35014

<u> </u>	Y Pagis of this opinion
Box No	o. I Basis of this opinion
	the particular has been established on the basis of:
	regard to the language, this opinion has been established on the basis of:
\bowtie	the international application in the language in which it was filed
	a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
2. With inven	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed ation, this opinion has been established on the basis of:
a.	type of material
	a sequence listing
	table(s) related to the sequence listing
b.	format of material
	on paper
	in electronic form
c.	time of filing/furnishing
	contained in the international application as filed.
	filed together with the international application in electronic form.
	furnished subsequently to this Authority for the purposes of search.
	\cdot
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4 444	litional comments:
4. Aud	miona comments.
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

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Novelty (N) Claims 1-6 NoNE Inventive step (IS) Claims 1-6 Claims NONE Industrial applicability (IA) Claims 1-6 Claims NONE Industrial applicability (IA) Claims 1-6 Claims NONE Claims NONE NO Citations and explanations: laims 1-6 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest a method or a mputer readable medium that stores computer program for guiding a medical instrument to a target site within a sticnt, comprising: capturing at least one ultrasound image from the patient; entifying a spatial feature indication of a patient target site on the trasound image, determining coordinates of the patient target site spatial ature in a reference coordinate system, determining a position of the strument in the reference coordinate system, creating a view field from a redetermined position, and optionally orientation, relative to the instrument the reference coordinate system, and projecting onto the view field an dictica, area or an object representing the spatial feature of the target site or negative and optionally orientation, relative to the target site or negative field an dictica, area or an object representing the spatial feature of the target site or negative field an dictica, area or an object representing the spatial feature of the target site or negative field an dictica, area or an object representing the spatial feature of the target site or negative field and the properties of the patient of the target site or negative field and the properties of the patient field from a second fi	applicability: citations and expl	e 43 <i>bis.</i> 1(a)(i) with regard to novelty, invelanations supporting such statement	
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Citations and explanations: aims 1-6 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest a method or a mputer readable medium that stores computer program for guiding a medical instrument to a target site within a tient, comprising: capturing at least one ultrasound image from the patient; entifying a spatial feature indication of a patient target site on the trasound image, determining coordinates of the patient target site spatial ature in a reference coordinate system, determining a position of the strument in the reference coordinate system, creating a view field from a redetermined position, and optionally orientation, relative to the instrument the reference coordinate system, and projecting onto the view field an dicia, area or an object representing the spatial feature of the target site orresponding to the predetermined position, and optionally orientation. laims 1-6 meet the criteria set out in PCT Article 33(4), and thus meet industrial applicability because the subject matter claimed can	Industrial applicability (IA)	Claims 1-6	
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Form PCT/ISA/237 (Box No. V) (April 2005)

NOTESTO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to Ele the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How? Either by cancelling one or more entire claims, he adding one or more new claims or by amending the text of one or more of the claims as filed

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.